

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-F-0001

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

U S ENVIRONMENTAL PROTECTION AGENCY
USEPA/NHEERL MD-B343-03
109 T W ALEXANDER DR
RESEARCH TRIANGLE PA, NC 27711

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	6	0	0	6
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
29-JAN-2015

(b)(6), (b)(7)(c)

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Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-F-0007

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

SPECIAL WARFARE MEDICAL GROUP (AIRBORN)
U S ARMY J F K S W C S
3004 ARDENNES ST, STOP A, AOJK-MED
FORT BRAGG, NC 28310

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

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4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	739	0	739
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	1	0	1
11. Pigs	0	0	236	0	236
12. Other Farm Animals	0	0	4010	0	4010
13. Other Animals					

ASSURANCE STATEMENTS

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(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

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SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
31-JAN-2015

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UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0001

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

WAKE FOREST UNIVERSITY
MEDICAL CENTER BOULEVARD

WINSTON SALEM, NC 27157

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	18	0	18
5. Cats	0	0	77	0	77
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	151	0	151
9. Non-human Primates	0	13	1025	0	1038
10. Sheep	0	1	71	0	72
11. Pigs	0	14	325	0	339
12. Other Farm Animals					
13. Other Animals	0	95	403	0	498

ASSURANCE STATEMENTS

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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
02-SEP-2015

(b)(6), (b)(7)(c)

OMB APPROVED
0579-0036

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

1. REGISTRATION NUMBER
55-R-0001

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

WAKE FOREST UNIVERSITY
MEDICAL CENTER BOULEVARD

WINSTON SALEM, NC 27157

[illegible]

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**UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0002

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

RESEARCH TRIANGLE INSTITUTE
P.O. BOX 12194 3040 CORNWALLIS RD.

RESEARCH TRIANGLE PA, NC 27709

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

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4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

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NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
05-NOV-2014

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UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0003

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

DUKE UNIVERSITY
OFFICE OF ANIMAL WELFARE ASSURANCE
2424 ERWIN RD STE 606
DURHAM, NC 27705

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

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4. Dogs	6	16	27	0	43
5. Cats	1	4	41	0	45
6. Guinea Pigs	0	287	189	0	476
7. Hamsters	0	0	20	0	20
8. Rabbits	4	143	76	0	219
9. Non-human Primates	0	14	76	0	90
10. Sheep	0	0	0	0	0
11. Pigs	3	6	125	0	131
12. Other Farm Animals	0	0	17	0	17
13. Other Animals	74	67	40	0	107

ASSURANCE STATEMENTS

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SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

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No. 0180-DOA-AN

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1. REGISTRATION NUMBER
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2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

DUKE UNIVERSITY
OFFICE OF ANIMAL WELFARE ASSURANCE
2424 ERWIN RD STE 606
DURHAM, NC 27705

[illegible]

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07-FEB-2015

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UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0010

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

EAST CAROLINA UNIVERSITY
DEPT OF COMPARATIVE MED., SCHOOL OF MED
212 LIFE SCIENCES BLDG
GREENVILLE, NC 27834

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

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4. Dogs	1	0	4	0	4
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	62	0	62
7. Hamsters	0	0	0	0	0
8. Rabbits	0	8	0	0	8
9. Non-human Primates	0	0	41	0	41
10. Sheep	0	0	0	0	0
11. Pigs	0	0	73	0	73
12. Other Farm Animals					
13. Other Animals	5	0	0	0	0

ASSURANCE STATEMENTS

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0579-0036

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

1. REGISTRATION NUMBER
55-R-0010

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

EAST CAROLINA UNIVERSITY
DEPT OF COMPARATIVE MED., SCHOOL OF MED
212 LIFE SCIENCES BLDG
GREENVILLE, NC 27834

[illegible]

- 1.) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2.) Each principal investigator has considered alternatives to painful procedures.
- 3.) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). **A summary of all such exceptions is attached to this annual report.** In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4.) The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

(b)(6), (b)(7)(c)

DATE SIGNED _____

05-NOV-2014

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0013

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

GREER LABORATORIES INC
639 NUWAY CIRCLE N E
P O BOX 800
LENOIR, NC 28645

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	1708	5482	0	0	5482
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
11-DEC-2014

(b)(6), (b)(7)(c)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0019

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

CENTRAL CAROLINA COMMUNITY COLLEGE
1105 KELLY DRIVE

SANFORD, NC 27330

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	42	0	42
5. Cats	0	0	39	0	39
6. Guinea Pigs	0	0	6	0	6
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	6	0	6
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	0	4	0	4
13. Other Animals	0	0	4	0	4

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
30-JAN-2015

(b)(6), (b)(7)(c)

OMB APPROVED
0579-0036

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

1. REGISTRATION NUMBER
55-R-0019

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

CENTRAL CAROLINA COMMUNITY COLLEGE
1105 KELLY DRIVE

SANFORD, NC 27330

[illegible]

- 1.) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- 4.) The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

(b)(6), (b)(7)(c)

DATE SIGNED _____

30-JAN-2015

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0021

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

UNIVERSITY OF NORTH CAROLINA @ GREENSBORO
DIRECTOR FOR THE OFFICE OD RESEARCH COMPLIANCE
2718 MOORE HUMANITIES & RESEARCH ADMIN BLDG 1111 SPRING
GARDEN STREET

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
05-DEC-2014

(b)(6), (b)(7)(c)

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OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0022

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

NORTH CAROLINA A&T STATE UNIVERSITY
LAB. ANIMAL RESOURCE UNIT
116 WEBB HALL
GREENSBORO, NC 27411

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	1	0	1
5. Cats	0	1	0	0	1
6. Guinea Pigs	15	12	10	0	22
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	14	0	14
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	5	0	5
12. Other Farm Animals					
13. Other Animals	40	31	10	0	41

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
31-JAN-2015

(b)(6), (b)(7)(c)

OMB APPROVED
0579-0036

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

1. REGISTRATION NUMBER
55-R-0022

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

NORTH CAROLINA A&T STATE UNIVERSITY

LAB. ANIMAL RESOURCE UNIT

116 WEBB HALL

GREENSBORO, NC 27411

**CONTINUATION SHEET FOR ANNUAL
REPORT OF RESEARCH FACILITY**
(TYPE OR PRINT)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use this form.)

[illegible]

ASSURANCE STATEMENTS

- 1.) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2.) Each principal investigator has considered alternatives to painful procedures.
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- 4.) The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

(b)(6), (b)(7)(c)

DATE SIGNED _____

31-JAN-2015

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OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0107

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

CAROLINAS MEDICAL CENTER
DIR OF COMPARATIVE MEDICINE, PO BOX 32861

CHARLOTTE, NC 28232

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	21	0	0	21
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	4	4	33	0	37
11. Pigs	0	0	112	0	112
12. Other Farm Animals					
13. Other Animals	120	0	0	0	0

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
13-JAN-2015

(b)(6), (b)(7)(c)

OMB APPROVED
0579-0036

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

1. REGISTRATION NUMBER
55-R-0107

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

CAROLINAS MEDICAL CENTER
DIR OF COMPARATIVE MEDICINE, PO BOX 32861

CHARLOTTE, NC 28232

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use this form.)

[illegible]

ASSURANCE STATEMENTS

- 1.) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

(b)(6), (b)(7)(c)

DATE SIGNED _____

13-JAN-2015

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

**UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0108

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

INTEGRATED LABORATORY SYSTEMS INC
PO BOX 13501

RESEARCH TRIANGLE PA, NC 27709

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
05-NOV-2014

(b)(6), (b)(7)(c)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0114

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

GASTON COLLEGE/VET TECH PROGRAM
201 HIGHWAY 321 SOUTH PO BOX 507

DALLAS, NC 28034

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	39	161	0	200
5. Cats	0	15	108	0	123
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	8	0	0	8
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	46	0	0	46
13. Other Animals	0	11	0	0	11

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
07-NOV-2014

(b)(6), (b)(7)(c)

OMB APPROVED
0579-0036

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

1. REGISTRATION NUMBER
55-R-0114

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

GASTON COLLEGE/VET TECH PROGRAM
201 HIGHWAY 321 SOUTH PO BOX 507

DALLAS, NC 28034

[illegible]

- 1.) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2.) Each principal investigator has considered alternatives to painful procedures.
- 3.) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). **A summary of all such exceptions is attached to this annual report.** In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4.) The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

(b)(6), (b)(7)(c)

DATE SIGNED _____

07-NOV-2014

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0123

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

SYNECOR LLC
3908 PATRIOT DRIVE SUITE 170

DURHAM, NC 27703

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	5	0	140	0	140
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	30	0	30	0	30
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	36	0	482	0	482
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
31-JAN-2015

(b)(6), (b)(7)(c)

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OMB APPROVED
0579-0036
Exp.: 10/31/2018

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Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0124

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

APPALACHIAN STATE UNIVERSITY
OFFICE OF RESEARCH PROTECTIONS
385/386 JOHN THOMAS HALL
BOONE, NC 28608

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	3	0	3
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	2	0	0	2
12. Other Farm Animals	0	9	0	0	9
13. Other Animals	0	0	0	0	0

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
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- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED

(b)(6), (b)(7)(c)

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OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0125

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

A B TECH COLLEGE
VETERINARY MEDICAL TECH DEPT
340 VICTORIA ROAD
ASHEVILLE, NC 28801

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	436	49	0	485
5. Cats	0	386	42	0	428
6. Guinea Pigs	0	0	1	0	1
7. Hamsters	0	0	0	0	0
8. Rabbits	0	3	0	0	3
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
22-JAN-2015

(b)(6), (b)(7)(c)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

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Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0127

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

GRIFOLS INC
8368 US 70 WEST

CLAYTON, NC 27520

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	1384	0	612	1996
7. Hamsters	0	0	0	0	0
8. Rabbits	0	1570	0	0	1570
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
09-FEB-2015

(b)(6), (b)(7)(c)

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OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0129

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

THE HAMNER INSTITUTES
6 DAVIS DR, PO BOX 12137

RESEARCH TRIANGLE PA, NC 27709

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
18-DEC-2014

(b)(6), (b)(7)(c)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0130

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

BRADFORD SCHOOLS INC
309 E MOREHEAD ST
SUITE 220
CHARLOTTE, NC 28202

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

VET TECH INSTITUTE

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	63	476	0	539
5. Cats	0	43	354	0	397
6. Guinea Pigs	0	3	0	0	3
7. Hamsters	0	1	0	0	1
8. Rabbits	0	19	7	0	26
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals	0	4	2	0	6

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
23-JAN-2015

(b)(6), (b)(7)(c)

OMB APPROVED
0579-0036

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

1. REGISTRATION NUMBER
55-R-0130

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

BRADFORD SCHOOLS INC
309 E MOREHEAD ST
SUITE 220
CHARLOTTE, NC 28202

[illegible]

- 1.) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2.) Each principal investigator has considered alternatives to painful procedures.
- 3.) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). **A summary of all such exceptions is attached to this annual report.** In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4.) The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

(b)(6), (b)(7)(c)

DATE SIGNED _____

23-JAN-2015

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0135

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

A D S MEDICAL SUPPORT TEAM INTERNATIONAL
7102 TILTON CT

FAYETTEVILLE, NC 28314

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	8	0	0	8
12. Other Farm Animals	0	0	51	0	51
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
07-FEB-2015

(b)(6), (b)(7)(c)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0136

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

MOLECULAR TOXICOLOGY INC
157 INDUSTRIAL PARK DR

BOONE, NC 28607

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	777	0	777
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
16-DEC-2014

(b)(6), (b)(7)(c)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0137

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

REMOTE SOLUTIONS LLC
3032 FALLS RIVER AVENUE

RALEIGH, NC 27614

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
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- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
22-SEP-2015

(b)(6), (b)(7)(c)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0141

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

ATLANTIC COAST COLLEGES
3901 CAPITAL BLVD SUITE 151

RALEIGH, NC 27604

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	25	117	43	0	160
5. Cats	17	31	25	0	56
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	3	0	0	3
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
13-JAN-2015

(b)(6), (b)(7)(c)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0142

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

POWERED RESEARCH L L C
PO BOX 14466

DURHAM, NC 27709

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	2	370	0	372
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
16-DEC-2014

(b)(6), (b)(7)(c)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2013

**UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0144

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

GLOBAL VACCINES INC
PO BOX 14827

RESEARCH TRIANGLE PARK, NC 27709

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	14	0	0	14
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). **A summary of all such exceptions is attached to this annual report.** In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
12-DEC-2013

(b)(6), (b)(7)(c)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0036
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

**UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0145

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

GRYPHON GROUP COMBAT TRAUMA DIVISION
16780 AIRBASE RD
LAURINBURG MAXTON AIRPORT
MAXTON, NC 28364

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

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4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

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NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
22-SEP-2015

(b)(6), (b)(7)(c)

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0579-0036
Exp.: 10/31/2018

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Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-R-0146

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

ABERRANT INC
3032 FALLS RIVER AVENUE

RALEIGH, NC 27614

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

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4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	1	0	0	1
13. Other Animals					

ASSURANCE STATEMENTS

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SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
22-SEP-2015

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0579-0036
Exp.: 10/31/2018

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Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NUMBER
55-V-0003

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

VA MEDICAL CENTER
508 FULTON STREET
RESEARCH SERVICE (151)
DURHAM, NC 27705

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets, if necessary.)

FACILITY LOCATIONS (Sites)

(b)(7)(F)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets, if necessary, or use APHIS FORM 7023A.)

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4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

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03-DEC-2014

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Interagency Report Control
No. 0180-DOA-AN

Fiscal Year 2014

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

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4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

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SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED
03-DEC-2014

(b)(6), (b)(7)(c)

NC STATE UNIVERSITY

Campus Box 7514
Raleigh, NC 27695-7514

919 515 2444 (phone)
919 515 7721 (fax)

Addendum to the FY2014 APHIS Form 7023 Submission for North Carolina State University USDA Registration #55-R-005/842-Category E Report

Category E Report for the Reporting Period of FY2014

Category E Study #1

1. Registration Number: 55-R-005
2. Number of animals used under Column E conditions in this study: 1 dog
3. Species (common name): Dog
4. Explain the procedure producing pain and/or distress, including reason(s) for species selected:

Canine babesiosis is a tick-born protozoan parasite that infects dogs worldwide and compromises their well being if undiagnosed and untreated. The purpose of this project is to produce antigens to be used in diagnostic tests. Our center is one of the largest centers for diagnosis of these infections conducting over 3500 tests per year for clinicians, other veterinary schools, blood banks in the US and worldwide. Production of antigens in live dogs is a necessary component of the tests used to diagnose this infection. Without this testing, accurate diagnosis and treatment would not be possible. Our lab tests for antibodies against 4 species of canine babesias and as a result we need 1 dog for each test species. Antigens generated have a "shelf life of 4-6 years and sufficient antigens are generated to last that period.

Dogs of approximately 35-40 pounds are initially sampled via venipuncture and determined to be free of infection and anti-canine antibodies. Following at least 1 week of conditioning, the dogs are splenectomized so that the animals are unable to mount a protective immune response against these protozoans. Two weeks are allowed for recovery from splenectomy during which time the animals are monitored twice daily for temperature, as well as general body condition, and the surgical site observed for proper healing. Every 2nd day 0.5-2 mls of blood are drawn and monitored for PCV, differential and presence of other blood pathogens which may have been subclinical prior to splenectomy but may resurge following splenectomy. If this occurs the animal will be treated if appropriate (e.g. hemotropic mycoplasma spp) or euthanized and a supplemental application will be submitted to the IACUC for approval to use another animal.

Approximately 2 weeks post-splenectomy, the animal is inoculated IV with a cryostabitate of the desired Babesia species. When organisms are initially observed, monitoring of thin blood films are done at the beginning and end of each day and additionally as warranted.

15615
256

Addendum to the FY2014 APHIS Form 7023 Submission for North Carolina State University USDA Registration #55-R-005/842-Category E Report

When ~5- 10% its erythrocytes are infected with Babesia organisms, the dog is sedated and 50 – 100 mls of anti-coagulated whole blood is collected by venipuncture then the animal is euthanized. In past procedures infection has resulted in only mildly elevated temperatures (103.5) and occasional inappetance. Dogs will not be allowed to become seriously ill. Typically the time from inoculation to euthanasia is 5-10 days.

Animals will be monitored (temperature, responsiveness to human interaction, alertness) at least twice daily, more often during the final 2-3 days of infection.

Although 3 of the 4 species of canine babesias (*B. gibsoni*, *B. North American sp* and *B. canis*) have been cultured *in vitro*, such static cultures are unable to yield antigen suitable for our tests. Antigen derived from cultures is of extremely variable quality and difficult to interpret. The other (*B. conradae*) has not been cultured *in vitro*. Consistent test results are especially important in a clinical setting as the results of thousands of such tests are used to address cultured *in vitro*. Both investigators are part of the Vector Borne Disease Diagnostic Laboratory (VBDDL) and this testing protocol is accepted by US and foreign veterinarians and is accepted for pre-importation testing by a variety of foreign countries e.g. Australia, New Zealand, S. Africa. Many investigators use the VBDDL as part of their research and it is important that our results are consistent with previous testing.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see item 6 below):

Past experience indicates that a parasitemia of ~ 10% is needed to prepare diagnostic antigen. Parasitemias that are significantly lower or higher are not as satisfactory for antigen preparation.

In the unexpected event that an animal experiences illness such as severe depression, complete anorexia, or recumbency, the animal will be euthanized. We monitor animals very closely once parasites are seen in the blood (usually every 6-8 h) and will euthanize any animal within 12-24 h of exhibition of depression, anorexia, etc.

Column E Explanation

This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: 55-R-0127

2. Number 612 of animals used in this study.

3. Species (common name) Guinea pig of animals used in the study.

4. Explain the procedure producing pain and/or distress.

Tetanus potency - To quantitate the potency of Tetanus Immune Globulin (Human) by using neutralization methodology.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

This testing is mandated by Product License Testing requirements. Administration of anesthetic, analgesic or tranquilizer drugs would interfere with the outcome of the testing.

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency FDA CFR 21 CFR 610.10

1. Species (Common name): Cat
2. Number of animals: 5
3. Exception: Lighting
4. Description: All animals are raised from birth to adulthood in total darkness.
5. Purpose and value of study: These studies examine the role of visual experience on the development of the multisensory processes by which the brain synthesizes information from different senses, like vision and hearing, to shape the way we perceive the world. By manipulating visual input during development we learn how the nervous system compensates. This work will be translated into clinical treatments, like prosthetic devices, to improve the lives of those with congenital or early-acquired sensory deficits.

1. Species (Common name): Monkey
2. Number of animals: 37
3. Exception: Singly Housed Primates
4. Description: Each housing unit is equipped with an operant panel from which animals self-administer food and cocaine. Cocaine is provided via a tether that encloses a chronic, indwelling, intravenous catheter. Animals are singly-housed to continuously measure their intake and to deliver potential treatment drugs over extended periods of time which provides enhanced translational value.
5. Purpose and value of study: There are currently no FDA-approved medications for the treatment of cocaine addiction. These studies systematically investigate current off-label medications or new medications for cocaine addiction, and they should provide important information relevant to clinicians.

1. Species (Common name): Monkey
2. Number of animals: 24
3. Exception: Singly Housed Primates
4. Description: There are published data suggesting that social stress affects dopaminergic systems in the brain as well as the reinforcing effects of drugs, like cocaine. These studies assess physiological and behavior measurements related to dopamine D3 receptors, and social housing can reasonably be expected to confound our findings.
5. Purpose and value of study: Dopamine is a chemical in the brain that has been shown to affect drug addiction. These studies investigate the role of dopamine D₃ receptors, which has been identified as an important target for new medications for addiction.

1. Species (Common name): Monkey
2. Number of animals: 8
3. Exception: Singly Housed Primates
4. Description: There are published data from this laboratory showing that social stress affects dopaminergic systems in the brain as well as the reinforcing effects of drugs, like cocaine. The present studies assess physiological and behavior measurements related to the dopamine system using PET imaging, CSF collection, and behavioral pharmacology techniques in monkeys that have been prenatally exposed to cocaine or control animals. If these monkeys were housed in social groups, it would confound the findings.
5. Purpose and value of study: The long-term neurological and behavioral consequences of this early drug exposure and whether this early experience makes young adults more vulnerable to cocaine abuse are unknown. These studies are aimed at

understanding the neurobiological and behavioral consequences of prenatal cocaine exposure in adult rhesus monkeys.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 25
- 3. Exception:** Singly Housed Primates
- 4. Description:** Our laboratory tests the distribution of novel radiotracers to specific organ systems in non-human primates using the imaging techniques of Positron Emission Tomography and Single Photon Emission Tomography. tools. Single housing takes place briefly for a day or so while the tracers are washed out.
- 5. Purpose and value of study:** This work will lead to better non-invasive imaging tools for research and medicine.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 38
- 3. Exception:** Singly Housed Primates
- 4. Description:** We investigate the interaction of social behavior of male nonhuman primates and models of drug addiction in order to better understand why some men become addicted to cocaine while others do not.
- 5. Purpose and value of study:** A better understanding of the social variables and individual differences in males that contribute to vulnerability, maintenance and relapse to cocaine abuse will lead to better strategies for the treatment and prevention of cocaine addiction. Ours is the only laboratory in the world using intravenous drug self-administration models in socially housed monkeys.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 27
- 3. Exception:** Singly Housed Primates
- 4. Description:** We investigate the interaction of social behavior of female nonhuman primates and models of drug addiction in order to better understand why some women become addicted to cocaine while others do not.
- 5. Purpose and value of study:** A better understanding of the social variables and individual differences in females that contribute to vulnerability, maintenance and relapse to cocaine abuse will lead to better strategies for the treatment and prevention of cocaine addiction. Ours is the only laboratory in the world using intravenous drug self-administration models in socially housed monkeys.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 8
- 3. Exception:** Singly Housed Primates
- 4. Description:** There are published data from this laboratory showing that social stress affects dopaminergic systems in the brain as well as the reinforcing effects of drugs. Thus, it is imperative that all animals in the study have identical housing conditions and avoid social housing.
- 5. Purpose and value of study:** Cigarette smoking resulting in nicotine dependence represents the most prevalent form of chemical dependence in the United States. Despite several FDA-approved drug treatments to combat nicotine dependence, relapse rates remain high. One of the most successful drug treatments for nicotine dependence has a success rate that is less than 40%. Thus, there is a need for better treatments and additional research.. These studies will evaluate new compounds compared to FDA-approved treatments in our monkey model.

1. Species Monkey
2. Number of animals: 21
3. Exception: Singly Housed Primates
4. Description Infants are housed singly initially in incubators to regulate body temperature and subsequently to reduce spread of influenza virus infection. Companion animals are housed in adjacent incubators/cages, and animals have frequent daily interaction with staff.
5. Purpose and value of study Respiratory and intestinal infections of infants between 1 and 6 months of life account for greater than 2 million deaths annually worldwide. Prominent among these infections is influenza virus, with one third of all infants infected in the first year of life. While wide-spread use of vaccines has been one of the greatest success stories in medicine, the vast majority of vaccines, including those for influenza, are not licensed for children <6 months of age, arguably a critical window for mortality and morbidity. This is in part a result of the large numbers of studies that suggest the neonatal immune system is compromised with regard to the ability to mount a protective immune response. While this issue presents a significant barrier to vaccination in the very young, there are data to suggest that this problem is not insurmountable. For example, vaccination of infants with BCG or HBV appears to result in elicitation of an immune response. These findings suggest that there are combinations of immune stimuli that can induce adaptive immune responses, even in the neonate. The goal of our proposed studies is to identify adjuvants that can promote effective and safe adaptive immune responses in neonates and in the process gain mechanistic insights into the regulation of the neonatal immune response. Given the significant morbidity and mortality that results from infection of human neonates with influenza, we have chosen inactivated influenza virus as our vaccination target. The NHP is the most appropriate model for these studies as they most closely mimic human infants in immune system development and function.

1. Species (Common name): Monkey
2. Number of animals: 6
3. Exception: Singly Housed Primates
4. Description: Animals are singly-housed in order to continuously measure food and fluid intake in individual animals. Each housing unit is equipped with an operant panel from which animals self-administer food and ethanol.
5. Purpose and value of study: Little is known about factors that render some individuals more susceptible to becoming alcoholics than others. There is a growing appreciation of the influence of personality--particularly an individual's reaction to positive and negative experiences--on sensitivity to abused drugs. These studies examine how reactivity to environmental stimuli influences sensitivity to alcohol, and whether differences in reaction to environmental enrichment can differentially alter drinking patterns. The model of alcohol drinking used for these studies is a well-studied, well-validated model of human alcohol drinking. Data obtained from these studies will provide information regarding vulnerability to the effects of alcohol, and will suggest new approaches for treating abuse.

1. Species (Common name): Monkey
2. Number of animals: 4
3. Exception: Singly Housed Primates
4. Description: There are published data suggesting that social stress affects dopaminergic systems in the brain as well as the reinforcing effects of drugs, like cocaine. These studies assess physiological and behavior measurements related to dopamine D2 receptors, and social housing can reasonably be expected to confound our

findings.

5. Purpose and value of study: These studies will help characterize which of cocaine's effects on the brain are responsible for driving cocaine use in addicts. A better understanding of these factors may lead to new and better treatment strategies for cocaine addiction, for which there are currently no FDA-approved drug treatments.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 24
- 3. Exception:** Singly Housed Primates
- 4. Description:** All animals on this protocol were singly housed at the previous U.S. school, where animals were housed with an individual leash. Animals that use a leash cannot be housed in social groups. Animal are trained to use other means of transport and appropriate social pairs are sought whenever possible.
- 5. Purpose and value of study:** Many millions of Americans suffer from chronic pain due in part to the failure of current medications. In this work, novel pain medications are compared to current treatments for efficacy. Only models of mild, escapable pain are used, such as tail withdrawal from hot water. This study also investigates the formation of various common side effects.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 11
- 3. Exception:** Singly Housed Primates
- 4. Description:** All animals on this protocol were singly housed at the previous U.S. school, where animals were housed with an individual leash. Animals that use a leash cannot be housed in social groups. Animal are trained to use other means of transport and appropriate social pairs are sought whenever possible.
- 5. Purpose and value of study:** Pruritus (itch sensation) is a symptom of many clinical disorders and drug treatments that afflicts a large population of humans. However, little effort has been made to improve our understanding of the receptor mechanisms of itch and potential antipruritics. The purpose of this research is to establish experimental itch models in primates, determine and compare the effectiveness of different drugs as potential antipruritics in a broader context, and facilitate the future development of effective antipruritics.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 3
- 3. Exception:** Singly Housed Primates
- 4. Description:** All animals on this protocol were singly housed at the previous U.S. school, where animals were housed with an individual leash. Animals that use a leash cannot be housed in social groups. Animal are trained to use other means of transport and appropriate social pairs are sought whenever possible.
- 5. Purpose and value of study:** The main goal of the proposed study is to test novel compounds in monkeys to see whether or not they can produce pain relief that is comparable to clinically available pain relievers, or analgesics. If this goal can be accomplished, there is an exciting potential to improve current clinical methods of pain management. Only models of mild, escapable pain are used, such as tail withdrawal from hot water. This study also investigates the formation of various common side effects.

- 1. Species (Common name):** Monkey
2. Number of animals: 3
3. Exception: Singly Housed Primates
4. Description: All animals on this protocol were singly housed at the previous U.S. school, where animals were leash trained as part of transport. Animals that use a leash cannot be social housed because of strangulation risk. Efforts to retrain these animals to other means of transport and to find appropriate social pairs are ongoing.
5. Purpose and value of study: These studies will investigate whether newly developed analgesics produce any unwanted side effects in nonhuman primate models with translational values. The research and development of such analgesics with fewer side effects will significantly advance human medicine.

- 1. Species (Common name):** Monkey
2. Number of animals: 16
3. Exceptions: Single housing
4. Descriptions: Single housing for up to 3 days to facilitate daily blood sampling, radiography, and observations.
5. Purpose and value of study: Monkeys were evaluated for age-related differences in intestinal function. They were monitored after the oral administration of markers for intestinal motility and mucosal integrity. As these monkeys live in large social groups (15-30 animals) in indoor/outdoor situations, adequate observations were not possible and significant stress to all monkeys would be incurred if we had captured all just to single out the one dosed monkey each day. It was decided that the selected monkey would be pair-housed if possible in a cage that faced the social pen in close proximity to retain familiarity. The study has been completed, all monkeys returned to group housing with no adverse effects. The value of the study is that failure of intestinal function with aging is hypothesized to be an important inflammatory source, which promotes general age-associated diseases and frailty development. We aim to understand age-related changes and thus how interventions can improve intestinal health.

- 1. Species (Common name):** Monkey
2. Number of animals: 22
3. Exceptions: Single housing
4. Descriptions: Single housing for up to 3 days to facilitate magnetic resonance imaging procedures.
5. Purpose and value of study: The purpose of the study was to produce the most complete description of chemical and anatomic developmental brain changes available in any primate species, providing a critical bridge between non-invasive studies and data that cannot be obtained from living people. Animals had magnetic resonance imaging (MRI) scans performed prior to euthanasia and the collection of brain tissue. Brain tissue was then used to develop a cytoarchitectonic map, a receptor architectonic atlas, or an atlas of white matter tracts and myelination.

- 1. Species (Common name):** Monkey
2. Number of animals: 3
3. Exceptions: Single housing
4. Descriptions: Single housing for up to 2 days to facilitate oral dosing and repeated blood sampling procedures.
5. Purpose and value of study: The purpose of the study was test the effectiveness of effectiveness of a new antiviral compound for the treatment of Respiratory Syncytial Virus (RSV). Animals were given a single, oral dose of the test compound and blood samples

were collected over the course of 24 hours to test the pharmacokinetic properties of the compound.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 3
- 3. Exceptions:** Single housing
- 4. Descriptions:** Single housing for up to 1 day while animals are removed from their large group housing and transported to the medical school for procedures.
- 5. Purpose and value of study:** This is a pilot study to optimize procedures for non-positron emission tomography in human primates using a particular tracer with an ultra-high specific activity as an imaging agent to measure beta amyloid. A successful pilot is progress towards the development of a new imaging tool for research.

- 1. Species (Common name):** Sheep
- 2. Number of animals:** 42
- 3. Exception:** Cage Size
- 4. Description:** Sheep (*Ovis Aries*) are housed below minimum square footage for up to twenty one days. Data from this laboratory shows that movement of animals in and out of the carts on a daily basis would adversely influence the hormones measured in these experiments.
- 3. Exception:** Multiple Major Survival Surgery
- 4. Description:** Project 1 - 1st surgery – placement of bladder catheter. 2nd surgery – Left nephrectomy and placement of renal artery catheter. Project 2 – 1st surgery – Placement of bladder catheter at 6 months of age. 2nd surgery – placement of bladder catheter at 12 months of age. Project 3 (newborn) renal nerve electrodes at 2 weeks of age. 2nd surgery (newborn) – placement of heart catheter at 2 weeks of age. Project 3 (adult) – 1st surgery – Placement of renal nerve electrodes at 6 month 2nd surgery – Placement of fourth ventricular catheter at 6 months of age. 3rd surgery – placement of renal nerve electrodes at 12 months. 4th surgery – placement of fourth ventricular catheter at 12 months of age.
- 5. Purpose and value of study:** These studies will advance our understanding of factors relating to the health and survival of newborn infants.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 14
- 3. Exception:** Watering
- 4. Description:** Access to fluids is timed so that monkeys are thirsty during operant testing in which sips of fluid serve as the reward. Trained animals generally work to satiety and obtain more than the minimum daily fluid requirement. If adequate fluid intake is not reached during testing, however, the subjects are supplemented to at least minimum levels afterward. Health and hydration are assessed every day by both research and veterinary personnel. Water regulation is suspended if subjects exhibit signs of dehydration (i.e., decreased urine production, dry feces, anorexia, changes in skin elasticity, and changes in hematocrit) or a reduction of body weight.
- 5. Purpose and value of study:** Improvements in cancer therapy and health care in the last two decades have led to a marked increase in the number of long-term cancer survivors - for long-term survivors, late effects remain a significant risk that can adversely impact their quality of life (QOL). Of patients receiving whole brain irradiation, ~10% develop progressive dementia, and 50% to 90% show some form of higher-order cognitive impairment that affects their QOL, and is recognized as one of the most important

measurements of cancer therapy outcomes, second only to survival in clinical trials. Although clinical trials have shown that short-term interventions can modulate cognitive impairment, there are no proven successful long-term treatments or effective preventive strategies for radiation-induced cognitive impairment. To this end, we have developed the current study which utilizes a novel nonhuman primate model to test palliative therapies and treatment to alleviate the cognitive impairment.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 7
- 3. Exception:** Watering
- 3. Exception:** Multiple Major Survival Surgery
- 4. Description:** The two major surgeries are for placement of craniotomy access cylinders to record and compare electrical brain activity from the different sites. The results of electrophysiological studies after the first surgery indicate the additional brain area that must be recorded for complete neural circuit analysis. Interval between the surgeries is typically >1 year.
- 4. Description:** Access to fluids is timed so that monkeys are thirsty during operant testing in which sips of fluid serve as the reward. Trained animals generally work to satiety and obtain more than the minimum daily fluid requirement. If adequate fluid intake is not reached during testing, however, the subjects are supplemented to at least minimum levels afterward. Health and hydration are assessed every day by both research and veterinary personnel. Water regulation is suspended if subjects exhibit signs of dehydration (i.e., decreased urine production, dry feces, anorexia, changes in skin elasticity, and changes in hematocrit) or a reduction of body weight.
- 5. Purpose and value of study:** Impairment of human memory can result from head injury, stroke, disease or as a consequence of drug use/abuse. While noninvasive recording of EEG and imaging can reveal many features of overall brain activity, they cannot isolate activity within single brain areas, provide information regarding the activity of single neurons, nor allow determination of the neural circuit responses to changes in cognitive ability or demand. These studies utilize implanted electrodes in two or more connected brain areas to investigate single and multiple neuron correlates with memory and behaviors involving memory.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 4
- 3. Exception:** Multiple Major Survival Surgery
- 4. Description:** The two major surgeries are for placement of craniotomy access cylinders to record and compare electrical brain activity from the different sites. Interval between the surgeries is typically >1 year.
- 3. Exception:** Watering
- 4. Description:** Access to fluids is timed so that monkeys are thirsty during operant testing in which sips of fluid serve as the reward. Trained animals generally work to satiety and obtain more than the minimum daily fluid requirement. If adequate fluid intake is not reached during testing, however, the subjects are supplemented to at least minimum levels afterward. Health and hydration are assessed every day by both research and veterinary personnel. Water regulation is suspended if subjects exhibit signs of dehydration (i.e., decreased urine production, dry feces, anorexia, changes in skin elasticity, and changes in hematocrit) or a reduction of body weight.
- 5. Purpose and value of study:** The experimental animal studies in this project build on a foundation of prior work on a memory prosthetic for the mammalian brain. The research plan systematically exploits recording of brain activity at multiple scales and levels

- including electrophysiology, behavior, electrochemistry and optogenetics. While noninvasive techniques can reveal many features of overall brain activity, they cannot describe the fine spatial and temporal details of neural circuits. These studies utilize implanted electrodes in two or more connected brain areas to investigate neural responses to behaviors involving memory, and test the effects of electrical microstimulation of those same brain areas to facilitate and/or restore memory function.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 5
- 3. Exception:** Multiple Major Survival Surgery
- 4. Description:** Up to two major surgeries are possible for a subset of animals. Both entail the implantation of a recording cylinder that allows for assessing the activity of single neurons within two visuomotor areas of the brain. The time between major surgical procedures varies depending on experimental objectives but typically ranges from between 2 months to 2 years.
- 3. Exception:** Fluid regulation
- 4. Description:** The fluid scheduling practices are based on the institutional fluid regulation policy as set forth by the animal care and use committee. Access to fluids is scheduled such that animals' first fluid intake of the day occurs during a training or experimental session. Trained animals generally work to satiety and obtain more than the minimum daily fluid requirement based on a baseline (pre-study) weight. If adequate fluid intake is not reached during testing, the subjects are supplemented to a minimum physiological standard (based on weight). Animal status is assessed by both research and veterinary personnel daily. Study animals are weighed with every experimental session (typically 5 x / week) and fluid regulation is suspended if weight loss exceeds a baseline criterion and/or the animal displays any sign of dehydration (e.g., decreased urine production, changes in skin elasticity).
- 5. Purpose and value of study:** The goal of our research is to understand how the brain forms decisions to guide choices by converting information about objects or events in the environment (e.g., the phone rings) into the brain activity that produce actions (e.g., pick up the phone). To do so, we study vision, audition (sensory), and eye movements (action) in monkeys trained to perform a variety of behavioral tasks. To understand how the brain's activity relates to the visual stimuli and to the eye movements needed to look at these stimuli, brain activity is measured while an animal is performing a behavioral task. One can appreciate this by considering the complexity of the behavioral impairments associated with disorders like Parkinson's disease, Huntington's chorea (a movement disorder not unlike Parkinson's Disease), or parietal neglect (the failure to sense or tendency to ignore certain parts of the sensory world).

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 4
- 3. Exceptions:** Multiple Major Survival Surgeries
- 4. Descriptions:** Multiple survival surgeries are required for the implantation of recording cylinders/chronic electrodes and neurophysiological recordings to more than one brain area. The minimum interval between major surgeries is 2-3 months (typically >6 months).
- 3. Exception:** Watering
- 4. Description:** The animals' water intake is scheduled so that the first fluid intake of the day occurs during the training or experimental session. Trained animals generally work to satiety and obtain more than the minimum daily fluid requirement. If adequate fluid intake is not reached during testing, however, the subjects are

supplemented to at least minimum levels afterward. Animal health is assessed every day by both research and veterinary personnel. Water regulation is suspended if subjects exhibit signs of dehydration (e.g., decreased urine production, changes in skin elasticity) or a significant reduction of body weight

5. Purpose and value of study: The study's overall objective is to investigate how the neurotransmitter acetylcholine affects the prefrontal cortex and its roles in such diseases as Alzheimer's. It will further allow us to test the effectiveness of different drugs, the effectiveness of prefrontal cortex stimulation, and the effectiveness of the two together in reversing reduced levels of acetylcholine.

1. Species (Common name): Monkey

2. Number of animals: 6

3. Exception: Multiple Major Survival Surgeries

4. Description: Multiple survival surgeries to implant recording cylinders may be required in this study if the first implant fails or if recording from a second brain region is needed. The minimal interval between major surgeries is 2-3 months (typically >6 months).

3. Exception: Watering

4. Description: The animals' water intake is scheduled so that the first fluid intake of the day occurs during the training or experimental session. Trained animals generally work to satiety and obtain more than the minimum daily fluid requirement. If adequate fluid intake is not reached during testing, however, the subjects are supplemented to at least minimum levels afterward. Animal health is assessed every day by both research and veterinary personnel. Water regulation is suspended if subjects exhibit signs of dehydration (e.g., decreased urine production, changes in skin elasticity) or a significant reduction of body weight

5. Purpose and value of study: The experiments will help uncover how learning changes the brain. Cognitive training has emerged in the past few years as a means of restoring function lost after traumatic brain injury and to ameliorate the effects of genetic disorders such as Alzheimer's disease and schizophrenia. Our results will shed light on the underlying neural circuit changes that occur following cognitive training, and they are expected to offer insights for the design of better treatment strategies for these conditions.

1. Species (Common name): Monkey

2. Number of animals: 6

3. Exception: Multiple Major Survival Surgeries

4. Description: Multiple survival surgeries are required in this study for the implantation of recording cylinders to gain access for neurophysiological recordings to more than one brain area and/or both brain hemispheres. No more than 3 major surgeries will be conducted per animal. The minimal interval between major surgeries is 2-3 months (typically >6 months).

3. Exception: Watering

4. Description: The animals' water intake is scheduled so that the first fluid intake of the day occurs during the training or experimental session. Trained animals generally work to satiety and obtain more than the minimum daily fluid requirement. If adequate fluid intake is not reached during testing, however, the subjects are supplemented to at least minimum levels afterward. Animal health is assessed every day by both research and veterinary personnel. Water regulation is suspended if subjects exhibit signs of dehydration (e.g., decreased urine production, changes in skin elasticity) or a significant reduction of body weight.

5. Purpose and value of study: The results will offer insights into how the brain performs visual perception, and they will contribute to the body of knowledge used to design better treatment strategies for disorders of learning and memory.

1. Species (Common name): Monkey
2. Number of animals: 4
3. Exceptions: Multiple Major Survival Surgeries
4. Descriptions: 1st major Surgery: Implantation of recording cylinder over the prefrontal cortex to allow microelectrode recordings. 2nd Major Surgery: Implantation of recording cylinder over the parietal cortex to allow microelectrode recordings. 3rd Major Surgery: Implantation of recording cylinder over the prefrontal or parietal cortex of the other hemisphere. The minimal interval between major surgeries is 2-3 months (typically >6 months).

3. Exception: Watering
4. Description: The animals' water intake is scheduled so that the first fluid intake of the day occurs during the training or experimental session. Trained animals generally work to satiety and obtain more than the minimum daily fluid requirement. If adequate fluid intake is not reached during testing, however, the subjects are supplemented to at least minimum levels afterward. Animal health is assessed every day by both research and veterinary personnel. Water regulation is suspended if subjects exhibit signs of dehydration (e.g., decreased urine production, changes in skin elasticity) or a significant reduction of body weight

5. Purpose and value of study: This project investigates the changes of prefrontal cortical physiology and functional connectivity that occur after puberty. A non-human primate model will be used which will allow us to conduct neurophysiological recordings in the prefrontal cortex of sexually immature and adult animals. A better understanding of the maturation of executive brain function will be relevant for a host of developmental conditions, including autism and schizophrenia.

1. Species (Common name): Monkey
2. Number of animals: 10
3. Exceptions: Multiple Major Survival Surgeries
4. Descriptions: 1st major Surgery: Liver and intestinal biopsies by laparotomy. 2nd major Surgery: Liver and intestinal biopsies by laparotomy. Liver, intestinal, and lymph node biopsies will be done prior to diet and after 8 months in the long-term diet intervention study

5. Purpose and value of study: This study aims to document the effects of dietary fructose on health in a relevant non-human primate model. By understanding whether fructose (more than other carbohydrates) causes liver fat to be accumulated, and uncovering the mechanism which contributes to this problem, we can advise on specific therapies for treating people with excess liver fat or, possibly advocate for changes in food production depending on the results of the study. The value of the study rests on the close gastrointestinal physiology shared between monkeys and humans, coupled with the ability to control dietary intakes such that the specific effects of fructose, uncomplicated by obesity, can be evaluated.

1. Species (Common name): Rabbit
2. Number of animals: 4
3. Exception: Multiple Major Survival Surgeries
4. Description: 2 survival surgeries. 1st Surgery: 2 jejunal biopsies were taken and 1cm long strips of smooth muscle from the anal sphincter were

removed. Second surgery occurred 6 weeks later, whereby bioengineered autologous tissue was implanted in IAS area.

5. Purpose and value of Study: This project is to test in a large animal model, a new therapeutic approach to treat fecal incontinence. This work will contribute significantly to the body of work that is aimed at producing engineered internal anal sphincter tissue to treat this disorder.

1. Species (Common name): Swine
2. Number of animals: 1
3. Exception: Multiple Major Surgery
4. Description: 1st major surgery: Nephrectomy 2nd major surgery: Implantation after nephrectomy. The animals in the study groups of this protocol will need to undergo a major surgery for nephrectomy to harvest one of their kidneys to use as cell donor for the seeding of the acellular scaffold. Nephrectomy was performed on 6/3/2014. Implantation was performed on 8/21/2014.
5. Purpose and value of study: It is well known that the number of patients needing an organ transplant far exceeds the number of donor organs available. We have developed a procedure for creating transplantable organs (e.g. kidneys) from animal organs that have been stripped of their native animal cells and replaced with recipient cells. The purpose of the present study is to demonstrate that: 1) Kidneys taken from pigs can be successfully placed back in pigs after these kidneys have been stripped of their cells, and 2) blood flow within the transplanted kidney can be maintained after implantation. This research will give us a better idea of whether pig derived kidney scaffolds with cell seeding can be implanted without complications or rejection by the body's defense (immune) system.

1. Species (Common name): Rabbit
2. Number of animals: 22
3. Exception: Multiple Major Survival Surgery
4. Description: 1st major surgery: Partial hysterectomy; 2nd major surgery: Transplantation of Bioengineered Uterus Scaffold. The first major surgery is required in order to obtain the cells needed for seeding of the scaffold. The second surgery is necessary in order to transplant the uterus. There will be at least four weeks between surgeries.
5. Purpose and value of study: The CDC reports that 5 of every 1000 women in the U.S. have had a hysterectomy, i.e., surgical removal of the uterus. We propose that a uterus substitute organ can be grown in the laboratory using cells from the patient that has been seeded on synthetic mesh (scaffold) material. The ultimate goal of this project is find a method to repair uterine tissue and return reproductive health to women.

1. Species (Common name): Monkey
2. Number of animals: 22
3. Exception: Multiple Major Survival Surgery
4. Description: 1st major surgery: Pudendal nerve injury to create Stress urinary incontinence model and urodynamic functional assessments; 2nd major surgery: Direct injection of treatment or control into urethral sphincter along with urodynamic functional assessments. A second major surgery will be performed approximately 6 weeks following the injury procedure in the acute study and 6 months following the procedure in the chronic study; in order to inject the muscle precursor
5. Purpose and value of study: Currently, there is no permanent cure for urinary incontinence. The proposed studies offer a potential treatment that will permanently restore urinary sphincter structure and function by using the patient's own cells. Studies will also

explore the best method to deliver those cells and how they regenerate the damaged tissues.

- 1. Species (Common name):** Monkey
- 2. Number of animals:** 15
- 3. Exception:** Multiple Major Survival Surgery
- 4. Description:** **1st major surgery:** Bi lateral penile corporal biopsy for collection of tissue for cell expansion; **2nd major surgery:** Approximately 6 weeks post biopsy the transplant of penile tissue (non-seeded, seeded, creation of defect as control).
- 5. Purpose and value of study:** There are no functional penis replacements available to wounded soldiers. This study has the potential of restoring sexual function to young male soldiers who may still want to father a child and have a satisfying sexual relationship.

- 1. Species (Common name):** Rabbit
- 2. Number of animals:** 27
- 3. Exception:** Multiple Major Survival Surgery
- 4. Description:** **1st major surgery:** Partial hysterectomy in order to obtain tissue for cell expansion; **2nd major surgery:** Transplantation of Bioengineered Uterus Scaffold There will be at least four weeks between surgeries.
- 5. Purpose and value of study:** The CDC reports that 5 of every 1000 women in the U.S. have had a hysterectomy, surgical removal of the uterus. We propose that a uterus substitute organ can be grown in the laboratory using cells from the patient that has been seeded on synthetic mesh (scaffold) material. This project leverages findings from previous work mentioned to make further progress toward the ultimate goal of repairing uterine tissue and returning reproductive health to women.

- 1. Species (Common name):** Swine
- 2. Number of animals:** 4
- 3. Exception:** Multiple Major Survival Surgeries
- 4. Description:** First major surgery: Attachment of a metal foundation to the skull. Second major surgery: Under anesthesia, a moderate, non-penetrating, impact-based brain injury is made. The first surgery and the injury are done within a couple hours and each animal survives up to 72 hours after the injury.
- 5. Purpose and value of study:** The purpose of the study is to characterize brain injury using proton magnetic resonance spectroscopy to identify brain metabolite changes and to correlate these with physical damage defined by immunohistochemistry. The data obtained should give us insights into the injury severity and evidence for potential new treatments.

Cage Size/Height:10 dogs

In order to ensure appropriate anesthetic recovery and prevent post-operative complications, animals were maintained in ICU cages for up to 48 hours. The institution's veterinary clinical staff determined the necessity, type, and length of the ICU stay based upon the patient's recovery condition. While cages did not meet the requirement of at least 6 inches clearance from the highest point of the standing dog or the minimum required floor space for all the dogs, the dogs were able to make normal postural adjustments and assume normal standing posture with clearance from the top of the cage. These dogs were also given extra hands-on care and attention by the veterinary staff during the ICU period.

Metered Water Provision:49 non-human primates

As justified on the approved protocol, these animals experienced varying degrees of water provision. The animals had the opportunity to earn as much fluid as they desired during training/testing sessions. On non-study days animals received supplemental water. Veterinarians routinely evaluated the animals to ensure adequate hydration and no adverse physiology related to metered water.

Single Housing:6 non-human primates

Select animals were singly-housed for clinical care requirements post- anesthesia for less than 30 days. The institution's veterinary clinical staff was consulted to determine the necessity, type, and length of single housing. Singly-housed animals participated in continuous auditory, olfactory, visual contact with conspecifics, daily human interaction, received regular novel treats and/or enjoyed other enrichment.

12 non-human primates

As justified in the approved protocol, by policy, or veterinary recommendation select animals underwent surgery and were singly housed post- anesthesia for less than 30 days. The institution's veterinary clinical staff was consulted to determine the necessity, type, and length of single housing. Singly-housed animals participated in continuous auditory, olfactory, visual contact with conspecifics, daily human interaction, received regular novel treats and/or enjoyed other enrichment.

7 non-human primates

As justified in the approved protocol animals that previously underwent surgery, were housed singly to prevent cage-mate induced trauma to the surgical site and/or implant. Singly-housed animals participated in continuous auditory, olfactory, visual contact with conspecifics, daily human interaction, received regular novel treats and enjoyed other enrichment.

8 non-human primates

As justified in the approved protocol, select animals were singly housed to maintain a desired health status. Singly-housed animals participated in continuous auditory, olfactory, visual contact with conspecifics, daily human interaction, received regular novel treats and/or enjoyed other enrichment.

32 non-human primates

Select animals were singly housed due to absence of appropriate conspecifics or after multiple attempts to socially house, the institution's veterinary staff determined select animals were incompatible with other conspecifics. Singly-housed animals participated in continuous auditory, olfactory, visual contact with conspecifics, daily human interaction, received regular novel treats and enjoyed other enrichment.